

22582

22223

3 Hours / 70 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following: **10****
- a) State the reason for taking fabric samples separately from wrap and weft direction.
 - b) Define Drape coefficient.
 - c) State different types of abrasion.
 - d) Define Air resistance of fabric.
 - e) State the objectives of bursting strength testing of fabric.
 - f) State the significance of fabric tensile strength.
 - g) Define seam strength.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) If a fabric is having 30^s Ne Wrap and Weft count respectively EPI-54 and PPI-62, calculate the fabric cover factor.
 - b) Describe the method of determination of crimp by crimp tester.
 - c) Describe the method of determination of drape coefficient by drape meter.
 - d) Explain the crease recovery angle of fabric and its effects on wearability.
- 3. Attempt any THREE of the following: 12**
- a) Describe the concept of wear, abrasion and serviceability of fabric.
 - b) Describe the procedure of measurement of abrasion resistance of fabric by Martindale Abrasion Tester.
 - c) Describe the factors affecting Air permeability of fabric.
 - d) Describe the Thermal Insulation value of fabric and its importance.
- 4. Attempt any THREE of the following: 12**
- a) Describe the concept of fabric assistance and its effects on tensile strength.
 - b) Describe the procedure of measurement of bursting strength of fabric by bursting strength tester.
 - c) Explain the significance of bursting strength of fabric.
 - d) Describe the procedure for determination of colour fastness of fabric to light.
 - e) Describe the procedure for determination of colour fastness of fabric to washing.

5. Attempt any TWO of the following:**12**

- a) Describe the method of fabric sampling for testing of fabric properties.
- b) Describe the factors affecting drape of fabric.
- c) Describe the factors affecting for pill formation on fabric.

6. Attempt any TWO of the following:**12**

- a) Describe the effects of fabric properties and structure on water repellency of fabric.
 - b) Describe the significance of fabric properties and structure on tensile strength of fabric.
 - c) Describe the procedure for determination of seam strength.
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